

Canyon Fuel Company, LLC
Dugout Canyon Mine
P.O. Box 1029
Wellington, Utah 84542



March 28, 2006

Ms. Pamela Grubaugh-Littig
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

*Handwritten: Section 7
5/10/06*

RE: Post Mining Land Use Change, Banning Loadout, Canyon Fuel Company, LLC, C/007/034,
Carbon County, Utah

Dear Ms. Grubaugh-Littig:

We would like to apologize for any inconvenience this may cause you or your staff, however there were several omissions associated with the clean copy submittal for the Banning Post Mining land use change. We are making this submittal to correct those emissions.

The legal notice and affidavit of publication for the notice were submitted in July and September of 2004, but were not approved at that time, therefore they should likely have been submitted with the clean copy information. There were also revisions made to Chapter 7, concerning the removal of a silt fence, which was approved on May 24, 2001, which were omitted from the clean copy text of Chapter 7.

Included in this submittal is the legal notice and affidavit. We have also included proof of the approval of the Chapter 7 text. If there are any questions concerning the text revisions provided, please call me and I will do my best to simplify the incorporation of this information.

Thank you for your consideration of this information. Please contact me with any questions at (435) 636-2869.

Sincerely yours,

Vicky S. Miller

cc: Dave Spillman

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: Canyon Fuel Company, LLC

Mine: Banning Loadout

Permit Number: C/007/034

Title: Post Mining Land Use Change

Description, Include reason for application and timing required to implement:

Inclusion of revisions already pre-approved, omitted from clean copy submittal.

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- ☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
- ☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
- ☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- ☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
- ☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- ☒ Yes ☐ No 6. Does the application require or include public notice publication?
- ☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- ☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- ☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
- ☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
- ☐ Yes ☒ No 11. Does the application affect the surface landowner or change the post mining land use?
- ☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- ☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
- ☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- ☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
- ☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- ☐ Yes ☒ No 17. Does the application require or include construction, modification, or removal of surface facilities?
- ☐ Yes ☒ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- ☐ Yes ☒ No 19. Does the application require or include certified designs, maps or calculation?
- ☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
- ☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
- ☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- ☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

David Q Spillman
Print Name

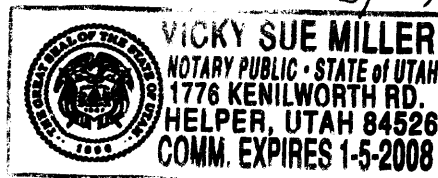
David Q Spillman, Engineering Manager
Sign Name, Position, Date

3/28/06

Subscribed and sworn to before me this 28 day of MARCH, 2006

Vicky Sue Miller
Notary Public

My commission Expires: 1-5, 2008
Attest: State of UTAH } ss:
County of CARBON



For Office Use Only:

Assigned Tracking
Number:

Received by Oil, Gas & Mining

APPLICATION FOR COAL PERMIT PROCESSING

Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Canyon Fuel Company, LLC

Mine: Banning Loadout

Permit Number: C/007/034

Title: Post Mining Land Use Change

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED

Chapter 7, Pages 7-8, 7-14 thru 7-17, 7-25 thru 7-35 and Table of Contents for Appendices and Exhibits

☐ Add ☒ Replace ☐ Remove☒ Add ☐ Replace ☐ Remove☐ Add ☐ Replace ☐ Remove

Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.

3-28-06

Received by Oil, Gas & Mining



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

May 24, 2001

Rick Olsen, General Manager
Canyon Fuel Company, LLC
P.O. Box 1029
Wellington, Utah 84542

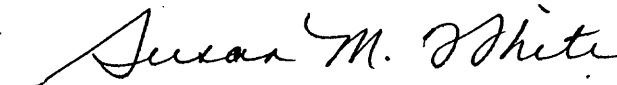
Re Approval of Silt Fence Removal, Canyon Fuel Company, LLC, Banning Siding Loadout, C/007/034-AM01A, Outgoing File

Dear Mr. Olsen:

The above-referenced amendment is approved effective May 24, 2001. Enclosed are a stamped incorporated chapter 7, exhibits 7-1 and 7-1a for your copy of the Mining and Reclamation Plan, and a copy of our Technical Analysis for your information.

If you have any questions, please feel free to call me.

Sincerely,


for Pamela Grubaugh-Littig
Permit Supervisor

sm

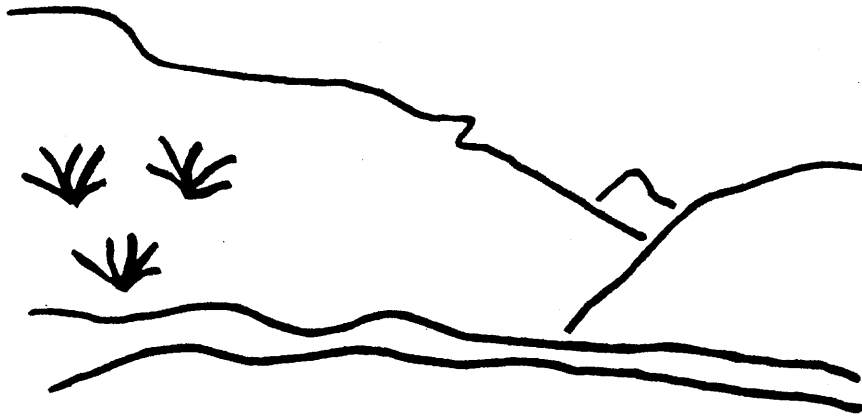
Enclosures: (2)

cc

Joe Wilcox, OSM
Richard Manus, BLM
Mark Page, Water Rights w/o
Dave Ariotti, DEQ w/o
Derris Jones, DWR w/o
Price Field Office

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State of Utah



Utah Oil Gas and Mining

Coal Regulatory Program

Banning Siding Loadout
Silt Fence Removal
C/007/034-AM01A
Technical Analysis
April 25, 2001

INTRODUCTION

TECHNICAL ANALYSIS**INTRODUCTION**

The proposed amendment changes to the Banning Loadout were received at the Division on March 27, 2001. The primary changes address the removal of silt fences as a form of Alternate Sediment Control from within the drainage ditch servicing the paved haul road, which provides access to the facility. Also included in the amendment is the elimination of a Surface Water monitoring point located at a straw bale exiting the drainage ditch. The affects of this proposal were evaluated during the Midterm Mine site visit conducted April 4, 2001. This review relates solely to the hydrologic prospective.

Information found in the proposal is considered adequate to meet the requirements of the State regulations.

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

Ground-water monitoring

A total of one groundwater site is monitored at Banning Loadout; the Truck Sump, respectively, is sampled annually during the third quarter. Currently, the MRP refers to an analysis parameter list that is not clearly outlined. A table that clearly outlines the parameters to be analyzed would improve the clarity of the MRP. This request is being made at this time since a new chapter 7 is being submitted with this proposed amendment.

Findings:

Information in the proposal adequately addresses the requirements of this section of the regulations.

Surface-water monitoring

The stream sample named 'Straw bale Q' is located in the drainage ditch servicing the paved haul road accessing the Site. Since 1987 no samples have ever been collected from this sample location. Originally, this sample location was designed to measure the TSS leaving the drainage ditch while vegetation was being established along the banks of the ditch. Current observations indicate the straw bales are no longer necessary based on the vegetation within the banks of the ditch, the low gradient design of the ditches, and the minimal amount of sediment accumulated upstream of the sediment control. It has also been determined that the drainage ditches minimize additional contributions of suspended solids to streamflow outside the permit area.

Findings:

Information in the proposal adequately addresses the requirements of this section of the regulations.

Sediment control measures

A total of twelve silt fences and two straw bale structures have been authorized for removal from within the drainages ditches (both sides of road) servicing the paved haul road accessing the site. The sediment control devices were located where overland flow from the ditches leaves the Permit Area and enters undisturbed drainages. Authorization for removal is based on well-vegetated banks within the ditches, the low gradient design of the ditches, and the minimal amount of sediment accumulated upstream of the sediment control. Revised Exhibits 7-1 and 7-1a illustrate these changes by omitting the sediment control from the Site drawings.

Recommendations include that portions of the silt fences, currently buried beneath sediment, will not be disturbed during removal. Exposed silt fences, wire netting, and T-posts will be cut off at the surface, and accumulated sediments will remain undisturbed.

Authorization for removal of the sediment control is being granted with the understanding that approval may be rescinded during future Site Inspections if the ditch design is determined to be inadequate.

Findings:

Information in the proposal adequately addresses the requirements of this section of the regulations.

CHAPTER 7

LIST OF APPENDICES

- APPENDIX 7-1 GROUND WATER INFORMATION
- APPENDIX 7-2 SURFACE WATER INFORMATION
- APPENDIX 7-3 CLIMATOLOGICAL INFORMATION AND AIR QUALITY APPROVAL
- APPENDIX 7-4 UPDES PERMIT
- APPENDIX 7-5 DISCHARGE DATA
- APPENDIX 7-6 SEDIMENTATION POND CALCULATIONS
- APPENDIX 7-7 RIP RAP SPLASH APRON CALCULATIONS
- APPENDIX 7-8 AS-BUILT REPORT - HAUL ROAD AND SEDIMENTATION
POND CERTIFICATIONS
- APPENDIX 7-9 SEDCAD ANALYSIS (SAE & ASCA'S)

LIST OF EXHIBITS

- EXHIBIT 7-1 BANNING LOADOUT RUNOFF CONTROL MEASURES
- EXHIBIT 7-2 SEDIMENTATION POND PLAN AND SECTIONS
- EXHIBIT 7-3 SEDIMENTATION POND DETAILS

CHAPTER 7

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- APPENDIX 7-9 SEDCAD ANALYSIS (SAE & ASCA'S)

LIST OF EXHIBITS

- EXHIBIT 7-1 BANNING LOADOUT RUNOFF CONTROL MEASURES
- EXHIBIT 7-1a RUNOFF CONTROL MAP
- EXHIBIT 7-2 SEDIMENTATION POND PLAN AND SECTIONS
- EXHIBIT 7-3 SEDIMENTATION POND DETAILS

ground water systems. This is an on-going and permitted operation, and this information has been previously provided as required.

R645-301-725.200 Information not Available

N/A Relevant information is available, and has been provided.

R645-301-725.300

N/A

R645-301-726 Modeling

N/A No modeling is planned for this site.

R645-301-727 Alternative Water Source Information

N/A This is not a surface coal mine.

R645-301-728 Probable Hydrologic Consequences (PHC) Determination

R645-301-728.100 PHC Determination

Surface Water

Runoff- and sediment-control facilities have been designed for the Banning Loadout in accordance with applicable Division regulations. These facilities were designed to safely convey and control runoff from the appropriate design storm events. Straw-bale dikes and/or silt-fence check dams will also be installed adjacent to the haulage road to minimize the erosive impacts of this feature.

The ephemeral nature of streamflow in the vicinity of the Banning Loadout and the naturally high salinity of the Mancos Shale on which the site is situated suggests that local streamflow has the potential of containing high suspended sediment and total dissolved solids

ground water systems. This is an on-going and permitted operation, and this information has been previously provided as required.

R645-301-725.200 Information not Available

N/A Relevant information is available, and has been provided.

R645-301-725.300

N/A

R645-301-726 Modeling

N/A No modeling is planned for this site.

R645-301-727 Alternative Water Source Information

N/A This is not a surface coal mine.

R645-301-728 Probable Hydrologic Consequences (PHC) Determination

R645-301-728.100 PHC Determination

Surface Water

Runoff- and sediment-control facilities have been designed for the Banning Loadout in accordance with applicable Division regulations. These facilities were designed to safely convey and control runoff from the appropriate design storm events.

The ephemeral nature of streamflow in the vicinity of the Banning Loadout and the naturally high salinity of the Mancos Shale on which the site is situated suggests that local streamflow has the potential of containing high suspended sediment and total dissolved solids

R645-301-728.100 PHC Determination

Surface Water

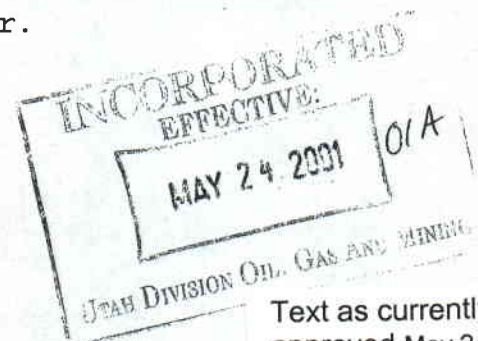
Runoff- and sediment-control facilities have been designed for the Banning Loadout in accordance with applicable Division regulations. These facilities were designed to safely convey and control runoff from the appropriate design storm events.

The ephemeral nature of streamflow in the vicinity of the Banning Loadout and the naturally high salinity of the Mancos Shale on which the site is situated suggests that local streamflow has the potential of containing high suspended sediment and total dissolved solids concentrations. As a result, background surface-water quality is considered poor and beneficial use of the water is non-existent. With the existence of poor background water quality, lack of beneficial use, and the proposed runoff- and sediment-control facilities, surface-water impacts to adjacent areas will be minimized.

Groundwater

The primary potential for impacts to groundwater from the Banning Loadout will be from leaching of the coal.

Metals which leach from the coal are normally most mobile in acidic environments. The alkaline nature of the soil at the site will preclude significant migration of metals to groundwater.



Text as currently
approved May 24, 2001

will be as follows:

FIELD MEASUREMENTS

Ph	pH units
Specific Conductivity	us/cm@25°
Temperature	°C

R645-301-731.211 through R645-301-731.215

N/A

R645-301-731.220 Surface Water Monitoring

As indicated in Section R645-301-731.120, the only surface water monitoring proposed is sampling of the straw bale dikes or silt fences along the haulage road (when possible) and collection of UPDES Discharge samples from the pond. No other surface water monitoring is proposed. See Appendix 7-2, 7-4 and 7-5.

R645-301-731.221

See previous Section R645-301-731.220.

R645-301-731.222 Monitoring Plan

When the occurrence of runoff events allows, samples of the water discharging through the straw-bale dikes and/or silt fences adjacent to the haulage road will be collected and analyzed for total suspended solids, settleable solids, total dissolved solids, oil and grease, total iron, total manganese, and pH. The discharge rate from each structure will be estimated at the time of sample collection. These data will be interpreted upon receipt from the laboratory to determine the effectiveness of the control structures and the need for design changes.

will be as follows:

FIELD MEASUREMENTS

Ph	pH units
Specific Conductivity	us/cm@25°
Temperature	°C

R645-301-731.211 through R645-301-731.215

N/A

R645-301-731.220 Surface Water Monitoring

As indicated in Section R645-301-731.120, the only surface water monitoring proposed is the collection of UPDES Discharge samples from the sedimentation pond. No other surface water monitoring is proposed. See Appendix 7-2, 7-4 and 7-5.

R645-301-731.221

See previous Section R645-301-731.220.

R645-301-731.222 Monitoring Plan

During discharge of water from the dewatering device and (where possible) from the spillway of the sedimentation pond, at least one sample will be collected from the discharge point. Samples thus collected will be submitted to an independent laboratory for analyses of total suspended solids, settleable solids, total dissolved solids, oil and grease, total iron, total manganese, and pH. Analytical results will be submitted to the Regulatory Authority in accordance with the UPDES permit.

LABORATORY MEASUREMENTS

Total Dissolved Solids	mg/L	Manganese (Dissolved)	mg/L
Bicarbonate	mg/L	Manganese (Total)	mg/L
Carbonate	mg/L	Potassium (Dissolved)	mg/L
Calcium (Dissolved)	mg/L	Sodium (Dissolved)	mg/L
Chloride	mg/L	Sulfate	mg/L
Iron (Dissolved)	mg/L	Cations	meq/L
Iron (Total)	mg/L	Anions	meq/L
Magnesium (Dissolved)	mg/L	Total Hardness (CaCO ₃)	mg/L

R645-301-731.211 through R645-301-731.215

N/A

R645-301-731.220 *Surface Water Monitoring*

As indicated in Section R645-301-731.120, the only surface water monitoring proposed is the collection of UPDES Discharge samples from the sedimentation pond. No other surface water monitoring is proposed. See Appendix 7-2, 7-4 and 7-5.

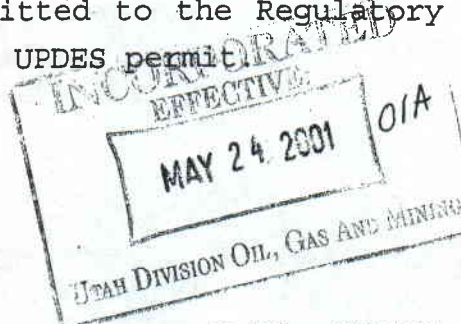
R645-301-731.221

See previous Section R645-301-731.220.

R645-301-731.222 *Monitoring Plan*

During discharge of water from the dewatering device and (where possible) from the spillway of the sedimentation pond, at least one sample will be collected from the discharge point. Samples thus collected will be submitted to an independent laboratory for analyses of total suspended solids, settleable solids, total dissolved solids, oil and grease, total iron, total manganese, and pH. Analytical results will be submitted to the Regulatory Authority in accordance with the UPDES permit.

Text as currently
approved May 24, 2001



The sediment pond is not considered temporary.

R645-301-733.240 Notification of Hazard

If any examination or inspection discloses that a potential hazard exists, the person who examined the impoundment will promptly inform the Division as indicated in Section R64-301-515.200.

R645-301-734 Discharge Structures

Discharge structures will be constructed and maintained to comply with R645-301744. Discharge structures are detailed in Appendix 7-6 and an Exhibits 7-2 and 7-3.

R645-301-735 Disposal of Excess Spoil

N/A There are no plans to dispose of excess spoil at this site.

R645-301-736 Coal Mine Waste

N/A There are no plans to dispose of coal mine waste at this site.

R645-301-737 Noncoal Mine Waste

Noncoal mine waste will be stored and disposed of as described in Section R645-301-521 and in compliance with R-645-301-747.

R645-301-738 Temporary Casing and Sealing of Wells

N/A There are no wells at this operation.

R645-301-740 Design Criteria and Plans

R645-301-741 General Requirements

The following sections will outline site-specific plans for the control of drainage from disturbed and undisturbed areas.

R645-301-742 Sediment Control Measures

The haulage road accessing the Banning Loadout from U.S. Highway 6 is

a center-crowned road that sheds water to both sides. Runoff from the road and adjacent areas will meet effluent limitation. In the event effluent limitations are exceeded, the following sediment control will be implemented. Flows will be directed toward straw-bale dikes (Figure 7-1) and/or silt-fence check dams (Figure 7-2) installed in the roadside drainage. These structures will be installed immediately upstream from locations where the roadside drainage is intersected by natural ephemeral stream channels.

The spacing along the haulage road will keep the contributing area for each structure to less than 0.5 acre (as recommended by the U.S. Environment Protection Agency, 1976) and help reduce sediment from flowing off the site.

Where straw-bale dikes are to be installed as shown in (Figure 7-1).

Silt-fence check dams are to be installed as shown in (Figure 7-2).

All straw-bale dikes and silt fences will be inspected routinely for damage and deterioration. Required repairs and replacements will be made as soon as possible.

Three ditch-relief culverts currently exist to convey runoff from undisturbed areas beneath the haulage road to the natural drainage system. These culverts will be inspected at routinely through the life of the loadout facility and repaired as needed.

R645-301-742.100 General Requirements

Alternate Sediment Control Areas

The following areas have been identified as alternate sediment control areas and are identified on Exhibit 7-1.

R645-301-742.100 General Requirements

Alternate Sediment Control Areas

The following areas have been identified as alternate sediment control areas and are identified on Exhibit 7-1.

Area 1.

This area is located adjacent to substation. The area contains 0.08 acres. The runoff is treated by a silt fence.

Area 2.

This area is located in the southern corner of the permit area. The area contains 0.82 acres. The runoff is treated by siltfences. See Appendix 7-9 for runoff calculations.

Area 3.

This area is located in the northeastern corner of the permit and runs west paralleling the haul road. The area contains 0.40 acres. The runoff is treated by silt fences. See Appendix 7-9 for runoff calculations.

Area 4.

This area is located west of Area 3. This area contains 0.05 acres and is treated by a silt fence. See Appendix 7-9 for runoff calculations.

R645-301-741 General Requirements

The following sections will outline site-specific plans for the control of drainage from disturbed and undisturbed areas.

R645-301-742 Sediment Control Measures

R645-301-742.100 General Requirements

Alternate Sediment Control Areas

The following areas have been identified as alternate sediment control areas and are identified on Exhibit 7-1.

Area 1

This area is located adjacent to and north of the substation. The area contains .43 acres. The runoff is treated by a silt fence.

Area 2.

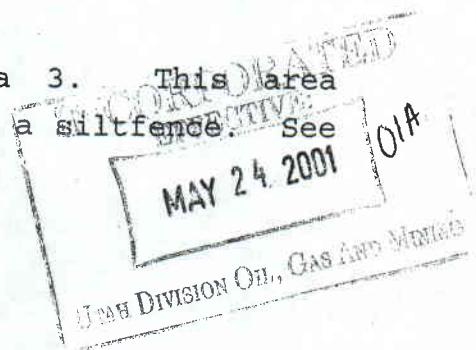
This area is located in the southern corner of the permit area. The area contains 0.82 acres. The runoff is treated by siltfences. See Appendix 7-9 for runoff calculations.

Area 3.

This area is located in the northeastern corner of the permit and runs west paralleling the haul road. The area contains 0.40 acres. The runoff is treated by siltfences. See Appendix 7-9 for runoff calculations.

Area 4.

This area is located west of Area 3. This area contains 0.05 acres and is treated by a siltfence. See Appendix 7-9 for runoff calculations.



drainage control has been designed in accordance with provisions of the B.L.M. Right-of-Way, and will be left as part of the right-of-way agreement. All other diversions will be removed and the area restored.

R645-301-742.314

Other requirements may be specified by the Division.

R645-301-742.320 Diversion of Perennial and Intermittent Streams

N/A There are no perennial or intermittent streams on, or adjacent to, this site.

R645-301-742.321 through R645-301-742.324

N/A

R645-301-742.330 Diversion of Miscellaneous Flows

N/A There are no flows such as ground water or ephemeral streams diverted at this site. Culverts are installed to direct runoff collecting along the road to natural drainages below.

R645-301-742.331 through R645-301-742.333

N/A

R645-301-742.400 Road Drainage **TEXT ADDED**

Roads and road drainage details are provided in Section R645-301-732.400, and shown on Exhibit 7-1 and Figures 7-1 and 7-2. Road design is detailed in Chapter 5.

R645-301-742.410 All Roads

All roads on site are considered primary roads, and are designed, constructed and maintained to meet the following criteria:

R645-301-742.411

The design and construction of all roads is appropriate for the type

R645-301-742.321 through R645-301-742.324

N/A

R645-301-742.330 Diversion of Miscellaneous Flows

N/A There are no flows such as ground water or ephemeral streams diverted at this site. Culverts are installed to direct runoff collecting along the road to natural drainages below.

R645-301-742.331 through R645-301-742.333

N/A

R645-301-742.400 Road Drainage

The haulage road accessing the Banning Loadout from U.S. Highway 6 is a center-crowned road that sheds water to both sides.

Three ditch-relief culverts currently exist to convey runoff from undisturbed areas beneath the haulage road to the natural drainage system. These culvert will be inspected routinely through the life of the loadout facility and repaired as needed. Roads and road drainage details are shown on Exhibit 7-1 and 7-1a. Road design is detailed in Chapter 5.

R645-301-742.410 All Roads

All roads on site are considered primary roads, and are designed, constructed and maintained to meet the following criteria:

R645-301-742.411

The design and construction of all roads is appropriate for the type

R645-301-742.331 through R645-301-742.333

N/A

R645-301-742.400 Road Drainage

The haulage road accessing the Banning Loadout from U.S. Highway 6 is a center-crowned road that sheds water to both sides.

Three ditch-relief culverts currently exist to convey runoff from undisturbed areas beneath the haulage road to the natural drainage system. These culverts will be inspected routinely through the life of the loadout facility and repaired as needed. Roads and road drainage details are shown on Exhibits 7-1 and 7-1a. Road design is detailed in Chapter 5.

R645-301-742.410 All Roads

All roads on site are considered primary roads, and are designed, constructed and maintained to meet the following criteria:

R645-301-742.411

The design and construction of all roads is appropriate for the type and size of equipment used, and incorporate appropriate limits for surface drainage control, culvert placement, culvert size, and other design established by the Division (and B.L.M.). See Chapter 5 for road design details and appropriate maps.

R645-301-742.412

The design and construction of all roads is appropriate for the type and size of equipment used, and incorporate appropriate limits for surface drainage control, culvert placement, culvert size, and other design established by the Division (and B.L.M.). See Chapter 5 for road design details and appropriate maps.

Text as currently
approved May 24, 2001

